

Title: US-10-031-496D-20

RESULT 1

US-10-031-496D-20
; Sequence 20, Application US/10031496D
; GENERAL INFORMATION:
; APPLICANT: National Renewable Energy Laboratory
; TITLE OF INVENTION: Cellobiohydrolase I Gene and Improved Variants
; FILE REFERENCE: NREL 99-45
; CURRENT APPLICATION NUMBER: US/10/031,496D
; CURRENT FILING DATE: 2002-01-14
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Primer for PCR

US-10-031-496D-20

Query Match 100.0%; Score 26; DB 7; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCTGTCTGGACCCCTGCCGCCTACGCG 26
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Db 1 GCTGTCTGGACCCCTGCCGCCTACGCG 26

RESULT 2

US-10-031-496D-21/c
; Sequence 21, Application US/10031496D
; GENERAL INFORMATION:
; APPLICANT: National Renewable Energy Laboratory
; TITLE OF INVENTION: Cellobiohydrolase I Gene and Improved Variants
; FILE REFERENCE: NREL 99-45
; CURRENT APPLICATION NUMBER: US/10/031,496D
; CURRENT FILING DATE: 2002-01-14
; NUMBER OF SEQ ID NOS: 96
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 26
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Primer for PCR

US-10-031-496D-21

Query Match 100.0%; Score 26; DB 7; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.069;
Matches 26; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCTGTCTGGACCCCTGCCGCCTACGCG 26
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Db 26 GCTGTCTGGACCCCTGCCGCCTACGCG 1

RESULT 1

AR030398

LOCUS AR030398 1453 bp DNA linear PAT 29-SEP-1999

DEFINITION Sequence 9 from patent US 5861271.

ACCESSION AR030398

VERSION AR030398.1 GI:5943612

KEYWORDS .

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 1453)

AUTHORS Fowler,T., Clarkson,K.A., Ward,M., Collier,K.D. and Larenas,E.

TITLE Cellulase enzymes and systems for their expressions

JOURNAL Patent: US 5861271-A 9 19-JAN-1999;

FEATURES Location/Qualifiers

source 1. .1453

/organism="unknown"

/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 24; DB 6; Length 1453;
 Best Local Similarity 100.0%; Pred. No. 1.1;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTTGTCACCC 24
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 Db 269 GCCTCTCCATTGGCTTTGTCACCC 292

RESULT 4

AR088330

LOCUS AR088330 1820 bp DNA linear PAT 07-SEP-2000

DEFINITION Sequence 17 from patent US 5989870.

ACCESSION AR088330

VERSION AR088330.1 GI:10015093

KEYWORDS .

SOURCE Unknown.

ORGANISM Unknown.

Unclassified.

REFERENCE 1 (bases 1 to 1820)

AUTHORS Nakari,T.Hannele., Onnela,M.-L., Ilmen,M.Hannele. and Penttila,M.Elisa.

TITLE Method for cloning active promoters

JOURNAL Patent: US 5989870-A 17 23-NOV-1999;

FEATURES Location/Qualifiers

source 1. .1820

/organism="unknown"

/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 24; DB 6; Length 1820;
 Best Local Similarity 100.0%; Pred. No. 1.1;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTTGTCACCC 24
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 Db 336 GCCTCTCCATTGGCTTTGTCACCC 359

RESULT 5

E00389

LOCUS E00389 2220 bp DNA linear PAT 29-SEP-1997

DEFINITION DNA coding for cellobiohydrolase I.

ACCESSION E00389

VERSION E00389.1 GI:2168674

KEYWORDS JP 1985149387-A/1.
 SOURCE Hypocrea jecorina
 ORGANISM Hypocrea jecorina
 Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
 Hypocreomycetidae; Hypocreales; Hypocreaceae; Hypocrea.
 REFERENCE 1 (bases 1 to 2220)
 AUTHORS Shiyaron, P.S., Deubitsudo, H.G., Maikeru, A.I., Jiyaneru, B.A.,
 Shiyaarii, I.U., Maasa, B.R. and Bitsukii, S.
 TITLE GENE FOR ENCODING BACTERIAL CELLULASE
 JOURNAL Patent: JP 1985149387-A 1 06-AUG-1985;
 CETUS CORP
 COMMENT OS Trichoderma reesei
 PN JP 1985149387-A/1
 PD 06-AUG-1985
 PF 31-AUG-1984 JP 1984180893
 PR 31-AUG-1983 US 83 528216, 16-JUL-1984 US 84 630974 PI
 SHIYARON PEIN SHIYUUMEIKAA, DEIBITSUDO HAROO GERUFUANDO, PI
 MAIKERU ARAN INISU, JIYANERU BAN AASUDERU, SHIYAARII II UOKU, PI
 MAASA BEIRII RADONAA, BITSUKII SHIYUUEIKAATO
 PC C12N15/00, C12N9/42, (C12N15/00, C12R1:885), (C12N9/42, C12R1:865);
 CC strandedness: Double;
 CC topology: Linear;
 CC hypothetical: No;
 CC anti-sense: No;
 CC *source: cell_line=L27;
 FH Key Location/Qualifiers
 FH
 FT CDS join(210. .671, 738. .1434, 1498. .1881) FT
 /product='cellobiohydrolase I' FT
 /standard_name='CBH I'
 FT mat_peptide join(210. .670, 738. .1434, 1498. .1878) FT exon
 210. .671
 FT /product='cellobiohydrolase I' FT
 /number=1
 FT intron 672. .737
 FT /number=1
 FT exon 738. .1434
 FT /product='cellobiohydrolase I' FT
 /number=2
 FT intron 1435. .1497
 FT /number=2
 FT exon 1498. .1881
 FT /product='cellobiohydrolase I' FT
 /number=3
 FT sig_peptide 210. .260
 FT mat_peptide join(261. .671, 738. .1434, 1498. .1878) FT
 /product='mature cellobiohydrolase'.
 FEATURES Location/Qualifiers
 source 1. .2220
 /organism="Hypocrea jecorina"
 /mol_type="genomic DNA"
 /db_xref="taxon:51453"

ORIGIN

Query Match 100.0%; Score 24; DB 6; Length 2220;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 7

RESSET
T04322

104222
LOCUS 104222 2221 bp DNA linear PAT 02-DEC-1994
DEFINITION Sequence 1 from Patent EP 0137280.

ACCESSION I04222
VERSION I04222.1 GI:591840
KEYWORDS .
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 2221)
AUTHORS Shoemaker,S.P., Gelfand,D.H., Innis,M.A., Kwok,S.Y., Ladner,M.B.
and Schweickart,V.
TITLE Recombinant fungal cellobiohydrolases
JOURNAL Patent: EP 0137280-A1 1 17-APR-1985;
FEATURES Location/Qualifiers
source 1. .2221
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 24; DB 6; Length 2221;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 9

TKCBH1A
LOCUS TKCBH1A 3297 bp DNA linear PLN 08-MAR-2000
DEFINITION T.koningii cbh1 gene for 1,4-beta-D-glucan-celllobiohydrolase.
ACCESSION X69976
VERSION X69976.1 GI:457422
KEYWORDS 1,4-beta-D-glucan-celllobiohydrolase; celllobiohydrolase; cellulase; cellulose 1,4-beta cellobiosidase.
SOURCE Hypocrea koningii (anamorph: Trichoderma koningii)
ORGANISM Hypocrea koningii
Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
Hypocreomycetidae; Hypocreales; Hypocreaceae; Hypocrea.
REFERENCE 1 (bases 1 to 3297)
AUTHORS Wey, T.T., Hseu, T.H. and Huang, L.
TITLE Molecular cloning and sequence analysis of the celllobiohydrolase I gene from Trichoderma koningii G-39
JOURNAL Curr. Microbiol. 28 (1), 31-39 (1994)
MEDLINE 94100788
PUBMED 7764306
REFERENCE 2 (bases 1 to 3297)
AUTHORS Hseu, T.H.
TITLE Direct Submission
JOURNAL Submitted (12-JAN-1993) T.H. Hseu, Inst. of Life Science, National Tsing Hua University, 101 Sec. 2 Kuang Fu Road, Hsinchu 30043, ROC, TAIWAN
FEATURES Location/Qualifiers
source 1. 3297
/organism="Hypocrea koningii"
/mol_type="genomic DNA"
/strain="G-39"
/db_xref="taxon:97093"
TATA_signal 401. 408
gene 471. 2489
/gene="cbh1"
mRNA join(471. .992, 1061. .1757, 1821. .2489)
/gene="cbh1"
exon 471. .992
/gene="cbh1"
/number=1
CDS join(532. .992, 1061. .1757, 1821. .2204)

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/gene="cbh1"
/EC_number="3.2.1.91"
/codon_start=1
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/protein_id="CAA49596.1"
/db_xref="GI:457423"
/db_xref="GOA:P00725"
/db_xref="Swiss-Prot:P00725"
/translation="MYRKLAVisAFLATARAQSACTLQSETHPPLTWQKCSSGGTCTQ
QTGSVVIDANWRWTHATNSSTNCYDGNTWSSTLCPDNETCAKNCLDGAAYASTYGV
TSGNSLSIGFVTOQAQNVGARLYLMASDFTTYQEFTLLGNEFSFDVDVSQLPCGLNGA
LYFVSMADGGVSKYPTNTAGAKYGTGYCDSQCPRDLKFINGQANVEGWEPEPSSNNANT
GIGGHGSCCSEMDIWEANSISEALTPHPCTTVGQEICEGDCGGTYSDNRGYGGTCDPD
GCDWNPYRLGNTSFYGPSSFTLDTKKLTVVTQFETSGAINRYYVQNGVTFQQPNAE
LGSYSGNELNDDYCTAAEEAEFGSSFSDKGGLTQFKKATSGGMVLVMSLWDDYYANML
WLDSTYPTNETSSTPGAVRGSCSTSSGVPAQVESQSPNAKVTFSNIKFGPIGSTGNPS
GGNPPGGNRGTTTRRPATTGSSPGPTQSHYGQCGGIGYSGPTVCASGTTCQVLNPY
YSQCL"
sig_peptide      532. .582
mat_peptide      join(583. .992,1061. .1757,1821. .2201)
                  /gene="cbh1"
                  /product="cellulose 1,4-beta-cellulobiosidase"
                  /EC_number="3.2.1.91"
intron           993. .1060
                  /gene="cbh1"
                  /number=1
exon             1061. .1757
                  /gene="cbh1"
                  /number=2
intron           1758. .1820
                  /gene="cbh1"
                  /number=2
exon             1821. .2489
                  /gene="cbh1"
                  /number=3
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ORIGIN

Query Match 100.0%; Score 24; DB 8; Length 3297;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GCCTCTCCATTGGCTTTGTCAACC	24
Db	851	GCCTCTCCATTGGCTTTGTCAACC	874

RESULT 2

AAQ91279
ID AAQ91279 standard; DNA; 1453 BP.
XX
AC AAQ91279;
XX
DT 25-MAR-2003 (revised)
DT 13-DEC-1995 (first entry)
XX
DE Exo-cellobiohydrolase CBHI catalytic c
XX
KW Cellulase; catalytic core; enzyme; ss.
XX
OS Trichoderma longibrachiatum.
XX
FH Key Location/Qualifiers
FT exon 1..410
FT /*tag= a
FT exon 478..1174

Query Match 100.0%; Score 24; DB 2; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.57;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 1
US-08-169-948B-9
; Sequence 9, Application US/08169948B
; Patent No. 5861271
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen
; APPLICANT: Collier, Katherine
; APPLICANT: Larenas, Edmund
; TITLE OF INVENTION: No. 5861271el Cellulase Enzymes and Systems
; TITLE OF INVENTION: For Their Expression
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/169,948B
FILING DATE: DEC 17 1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Horn, Margaret A.
REGISTRATION NUMBER: 33,401
REFERENCE/DOCKET NUMBER: GC226
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 742-7536
TELEFAX: (415) 742-7217
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 1453 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: join(1..410, 478..1174, 1238..1453)
US-08-169-948B-9

Query Match 100.0%; Score 24; DB 2; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTGTACCC 24
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Db 269 GCCTCTCCATTGGCTTGTACCC 292

RESULT 2
US-08-448-873-9
Sequence 9, Application US/08448873
Patent No. 5874276
GENERAL INFORMATION:
APPLICANT: Fowler, Timothy
APPLICANT: Ward, Michael
APPLICANT: Clarkson, Kathleen
APPLICANT: Collier, Katherine A.
APPLICANT: Larenas, Edmund
TITLE OF INVENTION: No. 5874276el Cellulase Enzymes and Systems
TITLE OF INVENTION: For Their Expressions
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genencor International
STREET: 180 Kimball Way
CITY: South San Francisco
STATE: CA
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/448,873
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/169,948
FILING DATE: 17-DEC-1993
ATTORNEY/AGENT INFORMATION:

; NAME: Stone, Christopher L.
; REGISTRATION NUMBER: 35,696
; REFERENCE/DOCKET NUMBER: GC226D14
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 742-7555
; TELEFAX: (415)742-7217
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1453 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(1..410, 478..1174, 1238..1453)
US-08-448-873-9

Query Match 100.0%; Score 24; DB 2; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTGTACCC 24
||| ||| ||| ||| ||| ||| ||| ||| |||
Db 269 GCCTCTCCATTGGCTTGTACCC 292

RESULT 3

US-08-382-452D-9

; Sequence 9, Application US/08382452D
; Patent No. 6268196
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Ward, Michael
; APPLICANT: Collier, Katherine D.
; APPLICANT: Larenas, Edmund A.
; TITLE OF INVENTION: NOVEL CELLULOSE ENZYMES AND SYSTEMS
; TITLE OF INVENTION: FOR THEIR EXPRESSION
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genencor International
; STREET: 925 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94080

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/382,452D
; FILING DATE: February 1, 1995

ATTORNEY/AGENT INFORMATION:

; NAME: Christopher L. Stone
; REGISTRATION NUMBER: 36,696
; REFERENCE/DOCKET NUMBER: GC226-2

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 742-7555
; TELEFAX: (415)742-7217

; INFORMATION FOR SEQ ID NO: 9:

; SEQUENCE CHARACTERISTICS:
; LENGTH: 1453 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
;
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(1..410, 478..1174, 1238..1453)
US-08-382-452D-9

Query Match 100.0%; Score 24; DB 3; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTGTACCC 24
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Db 269 GCCTCTCCATTGGCTTGTACCC 292

RESULT 4

US-09-916-494A-9

; Sequence 9, Application US/09916494A
; Patent No. 6620605
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Ward, Michael
; APPLICANT: Collier, Katherine D.
; APPLICANT: Larenas, Edmund
; TITLE OF INVENTION: Method and Compositions for Treating
; TITLE OF INVENTION: Cellulose Containing Fabrics Using Truncated Cellulase
; TITLE OF INVENTION: Enzyme Compositions
; FILE REFERENCE: GC226-C4
; CURRENT APPLICATION NUMBER: US/09/916,494A
; CURRENT FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 08/382,452
; PRIOR FILING DATE: 1995-02-01
; PRIOR APPLICATION NUMBER: US 08/169,948
; PRIOR FILING DATE: 1993-12-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1453
; TYPE: DNA
; ORGANISM: Trichoderma longibrachiatum
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; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(410)
; NAME/KEY: CDS
; LOCATION: (478)...(1174)
; NAME/KEY: CDS
; LOCATION: (1238)...(1453)
US-09-916-494A-9

Query Match 100.0%; Score 24; DB 4; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTGTACCC 24
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Db 269 GCCTCTCCATTGGCTTGTACCC 292

RESULT 5

US-08-389-564B-17

; Sequence 17, Application US/08389564B
; Patent No. 5989870
; GENERAL INFORMATION:
; APPLICANT: Nakari, Tiina H.
; APPLICANT: Onnela, Maija-Leena

APPLICANT: Ilm n, Marja H.
APPLICANT: Penttil , Merja E.
TITLE OF INVENTION: A METHOD FOR CLONING ACTIVE PROMOTERS
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/389,564B
FILING DATE: 16-FEB-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/932,485
FILING DATE: 19-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/496,155
FILING DATE: 19-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/044,077
FILING DATE: 29-APR-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 86 10600
FILING DATE: 30-APR-1986
ATTORNEY/AGENT INFORMATION:
NAME: REED, GRANT E.
REGISTRATION NUMBER: 41,264
REFERENCE/DOCKET NUMBER: 1716.008000G
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1820 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-389-564B-17

Query Match 100.0%; Score 24; DB 2; Length 1820;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTGTCAACC 24
|||
Db 336 GCCTCTCCATTGGCTTGTCAACC 359

RESULT 6

US-08-466-047B-17

; Sequence 17, Application US/08466047B
; Patent No. 6011147
; GENERAL INFORMATION:
; APPLICANT: Nakari, Tiina H.
; APPLICANT: Onnela, Maija-Leena
; APPLICANT: Ilm n, Marja H.
; APPLICANT: Nevalainen, Kaisu Milja Helena
; APPLICANT: Penttil , Merja E.
; TITLE OF INVENTION: Fungal Promoters Active In The Presence

TITLE OF INVENTION: Of Glucose
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,047B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/389,564
FILING DATE: 16-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/932,564
FILING DATE: 19-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/496,155
FILING DATE: 19-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/044,077
FILING DATE: 29-APR-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 86 10600
FILING DATE: 30-APR-1986
ATTORNEY/AGENT INFORMATION:
NAME: REED, GRANT E.
REGISTRATION NUMBER: 41,264
REFERENCE/DOCKET NUMBER: 1716.008000H
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1820 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-466-047B-17

Query Match 100.0%; Score 24; DB 3; Length 1820;
Best Local Similarity 100.0%; Pred. No. 0.061;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCCTCTCCATTGGCTTTGTCACCC 24
|||
Db 336 GCCTCTCCATTGGCTTTGTCACCC 359

Title: US-10-031-496D-85

RESULT 1

AR030398

LOCUS AR030398 1453 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 9 from patent US 5861271.
ACCESSION AR030398
VERSION AR030398.1 GI:5943612
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 1453)
AUTHORS Fowler,T., Clarkson,K.A., Ward,M., Collier,K.D. and Larenas,E.
TITLE Cellulase enzymes and systems for their expressions
JOURNAL Patent: US 5861271-A 9 19-JAN-1999;
FEATURES Location/Qualifiers
source 1. .1453
/organism="unknown"
/mol_type="unassigned DNA"

ORIGIN

Query Match 100.0%; Score 35; DB 6; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.0073;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35

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Db 1332 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1366

RESULT 2

AR399459

LOCUS AR399459 1453 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 9 from patent US 6620605.
ACCESSION AR399459
VERSION AR399459.1 GI:40141435
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 1453)
AUTHORS Fowler,T., Clarkson,K.A., Ward,M., Collier,K.D. and Larenas,E.
TITLE Method and compositions for treating cellulose containing fabrics
using truncated cellulase enzyme compositions
JOURNAL Patent: US 6620605-A 9 16-SEP-2003;
FEATURES Location/Qualifiers
source 1. .1453
/organism="unknown"
/mol_type="genomic DNA"

ORIGIN

Query Match 100.0%; Score 35; DB 6; Length 1453;
Best Local Similarity 100.0%; Pred. No. 0.0073;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35

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Db 1332 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1366

RESULT 3

AY368686

LOCUS AY368686 1746 bp mRNA linear PLN 17-SEP-2003
DEFINITION Trichoderma viride strain AS 3.3711 cellobiohydrolase I (cbhI)
mRNA, complete cds.
ACCESSION AY368686

VERSION AY368686.1 GI:34582631
 KEYWORDS .
 SOURCE Trichoderma viride
 ORGANISM Trichoderma viride
 Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes;
 Hypocreomycetidae; Hypocreales; mitosporic Hypocreales;
 Trichoderma.
 REFERENCE 1 (bases 1 to 1746)
 AUTHORS Liu,B.D., Yang,Q., Zhou,Q. and Song,J.Z.
 TITLE Cloning and Sequence Analysis of the cellobiohydrolase I (cbh I)
 Gene from Trichoderma viride AS 3.3711
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1746)
 AUTHORS Liu,B.D., Yang,Q., Zhou,Q. and Song,J.Z.
 TITLE Direct Submission
 JOURNAL Submitted (16-AUG-2003) Department of Life Science and Engineering,
 Harbin Institute of Technology, Dong Da Zhi, Harbin, Heilongjiang
 150001, P. R. China
 FEATURES Location/Qualifiers
 source 1. .1746
 /organism="Trichoderma viride"
 /mol_type="mRNA"
 /strain="AS 3.3711"
 /db_xref="taxon:5547"
 gene 1. .1746
 /gene="cbhI"
 CDS 44. .1588
 /gene="cbhI"
 /codon_start=1
 /product="cellobiohydrolase I"
 /protein_id="AAQ76092.1"
 /db_xref="GI:34582632"
 /translation="MYRKLAVisAFLATARAQSACTLQSETHPPLTWQKCSSGGTCTQ
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 LYFVSMADGGVSKYPTNTAGAKYGTGYCDSQCPRDLKFINGQANVEGWEPSNNANT
 GIGGHGSCCSEMDIWEANSISEALTPHPCTTVGQEICEGDCGGTYSDNRYGGCDPD
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 WLDSTYPTNETSSTPGAVRGSCSTSSGVPAQVESQSPNAKVTFSNIKFGPIGSTGDPS
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ORIGIN

Query Match 100.0%; Score 35; DB 8; Length 1746;
 Best Local Similarity 100.0%; Pred. No. 0.0071;
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35
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 Db 1296 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1330

RESULT 4

AR088330

LOCUS AR088330 1820 bp DNA linear PAT 07-SEP-2000
 DEFINITION Sequence 17 from patent US 5989870.
 ACCESSION AR088330
 VERSION AR088330.1 GI:10015093
 KEYWORDS .
 SOURCE Unknown.
 ORGANISM Unknown.
 Unclassified.
 REFERENCE 1 (bases 1 to 1820)
 AUTHORS Nakari,T.Hannele., Onnela,M.-L., Ilmen,M.Hannele. and
 Penttila,M.Elisa.
 TITLE Method for cloning active promoters

FT sig_peptide 210. .260
 FT mat_peptide join(261. .671,738. .1434,1498. .1878) FT
 /product='mature cellobiohydrolase'.
FEATURES
 source Location/Qualifiers
 1. .2220
 /organism="Hypocrea jecorina"
 /mol_type="genomic DNA"
 /db_xref="taxon:51453"

ORIGIN

Query Match 100.0%; Score 35; DB 6; Length 2220;
 Best Local Similarity 100.0%; Pred. No. 0.0068;
 Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35
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 Db 1591 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1625

RESULT 9

TKCBH1A

LOCUS TKCBH1A 3297 bp DNA linear PLN 08-MAR-2000
DEFINITION T.koningii cbh1 gene for 1,4-beta-D-glucan-cellobiohydrolase.
ACCESSION X69976
VERSION X69976.1 GI:457422
KEYWORDS 1,4-beta-D-glucan-cellobiohydrolase; cellobiohydrolase; cellulase; cellulose 1,4-beta cellobiosidase.
SOURCE Hypocrea koningii (anamorph: Trichoderma koningii)
ORGANISM Hypocrea koningii
 Eukaryota; Fungi; Ascomycota; Pezizomycotina; Sordariomycetes; Hypocreomycetidae; Hypocreales; Hypocreaceae; Hypocrea.
REFERENCE 1 (bases 1 to 3297)
AUTHORS Wey, T.T., Hseu, T.H. and Huang, L.
TITLE Molecular cloning and sequence analysis of the cellobiohydrolase I gene from Trichoderma koningii G-39
JOURNAL Curr. Microbiol. 28 (1), 31-39 (1994)
MEDLINE 94100788
PUBMED 7764306
REFERENCE 2 (bases 1 to 3297)
AUTHORS Hseu, T.H.
TITLE Direct Submission
JOURNAL Submitted (12-JAN-1993) T.H. Hseu, Inst. of Life Science, National Tsing Hua University, 101 Sec. 2 Kuang Fu Road, Hsinchu 30043, ROC, TAIWAN

FEATURES Location/Qualifiers
 source 1. .3297
 /organism="Hypocrea koningii"
 /mol_type="genomic DNA"
 /strain="G-39"
 /db_xref="taxon:97093"
 TATA_signal 401. .408
 gene 471. .2489
 /gene="cbh1"
 mRNA join(471. .992,1061. .1757,1821. .2489)
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 exon 471. .992
 /gene="cbh1"
 /number=1
 CDS join(532. .992,1061. .1757,1821. .2204)
 /gene="cbh1"
 /EC_number="3.2.1.91"
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 /product="cellulose 1,4-beta-cellobiosidase"
 /protein_id="CAA49596.1"
 /db_xref="GI:457423"
 /db_xref="GOA:P00725"
 /db_xref="Swiss-Prot:P00725"
 /translation="MYRKLAVISAFLATARAQSACTLQSETHPPLTWQKCSSGGTCTQ"

QTGSVVIDANWRWTHATNSSTNCYDGNTWSSTLCPDNETCAKNCLDGAAAYASTYGV
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GIGGHGSCCSEMDIWEANSISEALTPHPCTTVGQEICEGDDCGGTYSDNRYGGCDPD
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YSQCL"
sig_peptide 532. .582
/gene="cbh1"
mat_peptide join(583. .992,1061. .1757,1821. .2201)
/gene="cbh1"
/product="cellulose 1,4-beta-cellulobiosidase"
/EC_number="3.2.1.91"
intron 993. .1060
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/number=1
exon 1061. .1757
/gene="cbh1"
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intron 1758. .1820
/gene="cbh1"
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exon 1821. .2489
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/number=3

ORIGIN

Query Match 100.0%; Score 35; DB 8; Length 3297;
Best Local Similarity 100.0%; Pred. No. 0.0064;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35
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Db 1915 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1949

RESULT 1

US-08-169-948B-9

; Sequence 9, Application US/08169948B

; Patent No. 5861271

; GENERAL INFORMATION:

; APPLICANT: Fowler, Timothy
; APPLICANT: Ward, Michael
; APPLICANT: Clarkson, Kathleen
; APPLICANT: Collier, Katherine
; APPLICANT: Larenas, Edmund

; TITLE OF INVENTION: No. 5861271el Cellulase Enzymes and Systems

; TITLE OF INVENTION: For Their Expression

; NUMBER OF SEQUENCES: 48

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genencor International
; STREET: 180 Kimball Way
; CITY: South San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94080

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/169,948B

; FILING DATE: DEC 17 1993

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:


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; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1453 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: join(1..410, 478..1174, 1238..1453)  
US-08-448-873-9
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Query Match          100.0%;  Score 35;  DB 2;  Length 1453;
Best Local Similarity 100.0%;  Pred. No. 2.6e-05;
Matches 35;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

Qy      1 CCGGTGTCCCTGCTCAGGTCGAACATCTCAGTCTCCC 35
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Db      1332 CCGGTGTCCCTGCTCAGGTCGAACATCTCAGTCTCCC 1366

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RESULT 3
US-08-382-452D-9
; Sequence 9, Application US/08382452D
; Patent No. 6268196
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Ward, Michael
; APPLICANT: Collier, Katherine D.
; APPLICANT: Larenas, Edmund A.
; TITLE OF INVENTION: NOVEL CELLULOSE ENZYMES AND SYSTEMS
; TITLE OF INVENTION: FOR THEIR EXPRESSION
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genencor International
; STREET: 925 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94080
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/382,452D
; FILING DATE: February 1, 1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Christopher L. Stone
; REGISTRATION NUMBER: 36,696
; REFERENCE/DOCKET NUMBER: GC226-2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 742-7555
; TELEFAX: (415) 742-7217
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1453 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: join(1..410, 478..1174, 1238..1453)
US-08-382-452D-9

Query Match 100.0%; Score 35; DB 3; Length 1453;
Best Local Similarity 100.0%; Pred. No. 2.6e-05;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35
Db 1332 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1366

RESULT 4
US-09-916-494A-9
; Sequence 9, Application US/09916494A
; Patent No. 6620605
; GENERAL INFORMATION:
; APPLICANT: Fowler, Timothy
; APPLICANT: Clarkson, Kathleen A.
; APPLICANT: Ward, Michael
; APPLICANT: Collier, Katherine D.
; APPLICANT: Larenas, Edmund
; TITLE OF INVENTION: Method and Compositions for Treating
; TITLE OF INVENTION: Cellulose Containing Fabrics Using Truncated Cellulase
; TITLE OF INVENTION: Enzyme Compositions
; FILE REFERENCE: GC226-C4
; CURRENT APPLICATION NUMBER: US/09/916,494A
; CURRENT FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 08/382,452
; PRIOR FILING DATE: 1995-02-01
; PRIOR APPLICATION NUMBER: US 08/169,948
; PRIOR FILING DATE: 1993-12-17
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 1453
; TYPE: DNA
; ORGANISM: Trichoderma longibrachiatum
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(410)
; NAME/KEY: CDS
; LOCATION: (478)...(1174)
; NAME/KEY: CDS
; LOCATION: (1238)...(1453)
US-09-916-494A-9

Query Match 100.0%; Score 35; DB 4; Length 1453;
Best Local Similarity 100.0%; Pred. No. 2.6e-05;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35
Db 1332 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1366

RESULT 5
US-08-389-564B-17
; Sequence 17, Application US/08389564B
; Patent No. 5989870
; GENERAL INFORMATION:
; APPLICANT: Nakari, Tiina H.
; APPLICANT: Onnela, Maija-Leena
; APPLICANT: Ilm n, Marja H.
; APPLICANT: Penttil , Merja E.
; TITLE OF INVENTION: A METHOD FOR CLONING ACTIVE PROMOTERS
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600

;
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20005
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/389,564B
; FILING DATE: 16-FEB-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/932,485
; FILING DATE: 19-AUG-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/496,155
; FILING DATE: 19-MAR-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/044,077
; FILING DATE: 29-APR-1987
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 86 10600
; FILING DATE: 30-APR-1986
; ATTORNEY/AGENT INFORMATION:
; NAME: REED, GRANT E.
; REGISTRATION NUMBER: 41,264
; REFERENCE/DOCKET NUMBER: 1716.008000G
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 371-2600
; TELEFAX: (202) 371-2540
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1820 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-08-389-564B-17

Query Match 100.0%; Score 35; DB 2; Length 1820;
Best Local Similarity 100.0%; Pred. No. 2.6e-05;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 35
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Db 1399 CCGGTGTCCCTGCTCAGGTCGAATCTCAGTCTCCC 1433

RESULT 6

US-08-466-047B-17
; Sequence 17, Application US/08466047B
; Patent No. 6011147
; GENERAL INFORMATION:
; APPLICANT: Nakari, Tiina H.
; APPLICANT: Onnela, Maija-Leena
; APPLICANT: Ilm n, Marja H.
; APPLICANT: Nevalainen, Kaisu Milja Helena
; APPLICANT: Penttil , Merja E.
; TITLE OF INVENTION: Fungal Promoters Active In The Presence
; TITLE OF INVENTION: Of Glucose
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
; STREET: 1100 New York Avenue, Suite 600
; CITY: Washington
; STATE: D.C.

COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,047B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/389,564
FILING DATE: 16-FEB-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/932,564
FILING DATE: 19-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/496,155
FILING DATE: 19-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/044,077
FILING DATE: 29-APR-1987
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 86 10600
FILING DATE: 30-APR-1986
ATTORNEY/AGENT INFORMATION:
NAME: REED, GRANT E.
REGISTRATION NUMBER: 41,264
REFERENCE/DOCKET NUMBER: 1716.008000H
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 1820 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

TOPOLOGI:
US-08-466-047B-17

Query Match 100.0%; Score 35; DB 3; Length 1820;
Best Local Similarity 100.0%; Pred. No. 2.6e-05;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;